

Claims;

1. A punch press comprising:

a press frame² including an upper transferring and loading path¹⁷ and a lower transferring and loading path¹⁸ wherein a cartridge⁷ capable of loading a punch tool and a cartridge⁷ capable of loading the die tool^{AB} corresponding to the punch tool, can freely move-in or move-out^{of?};

a ram³⁸ for driving the punch tool^T loaded on the upper cartridge^{AB} employed in the press frame; and

a cartridge transferring and loading means^{check spec. 19, 20} for enabling the storing and the discharging of the upper and lower cartridges independently to the inside and outside of the press frame.
→ he I think means that you can store cartridges either inside or outside the frame

2. The punch press according to claim 1 wherein said upper and lower transferring and loading paths[?] can store at least two cartridges in the front and back of the moving-in and moving-out direction^{AB}, and the cartridge transferring and loading means can transfer the front and back cartridges^{AB} independently.

3. The punch press according to claim 1 or claim 2 wherein the cartridge transferring and loading means transfers the cartridge^{AB (plenal set Forth)} by the transferring of the engaging member engaged to the cartridge^{AB 28-30} freely engaging and disengaging along the transferring and loading path, and the transferring and loading path, and the transferring path of the engaging and disengaging member are straight lined path.